
13(Once-Amended). The non-reducing saccharide-forming enzyme of claim 1, which has the following physicochemical properties:

(1) Action

Forming a non-reducing saccharide having a trehalose structure as an end unit from a reducing partial starch hydrolysates having a degree of glucose polymerization of 3 or higher;

(2) Molecular weight

About $75,000 \pm 10,000$ daltons on sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE);

(3) Isoelectric point (pI)

About 4.5 ± 0.5 on isoelectrophoresis using ampholyte;

(4) Optimum temperature

About 50°C when incubated at pH 6.0 for 60 min;

(5) Optimum pH

About 6.0 when incubated at 50°C for 60 min;

(6) Thermal stability

Stable up to a temperature of about 55°C when incubated at pH 7.0 for 60 min; and

(7) pH stability

Stable at pHs of about 5.0 to about 10.0 when incubated at 4°C for 24 hours.

Please add new claims 52 and 53 as follows:

⁵⁷
~~--53~~(New). A non-reducing saccharide-forming enzyme,
which comprises an amino acid sequence having at least 70%
sequence identity to the amino acid sequence of SEQ ID NO:1, and
which forms a non-reducing saccharide having a trehalose
structure as an end unit from a reducing partial starch
hydrolysate.--

D⁴ ⁵⁸
~~--54~~(New). A non-reducing saccharide-forming enzyme,
which comprises an amino acid sequence having at least 80%
sequence identity to the amino acid sequence of SEQ ID NO:1, and
which forms a non-reducing saccharide having a trehalose
structure as an end unit from a reducing partial starch
hydrolysate.--
